

## Supporting Information

### Automated glycan sequencing from tandem mass spectra of N-linked glycopeptides

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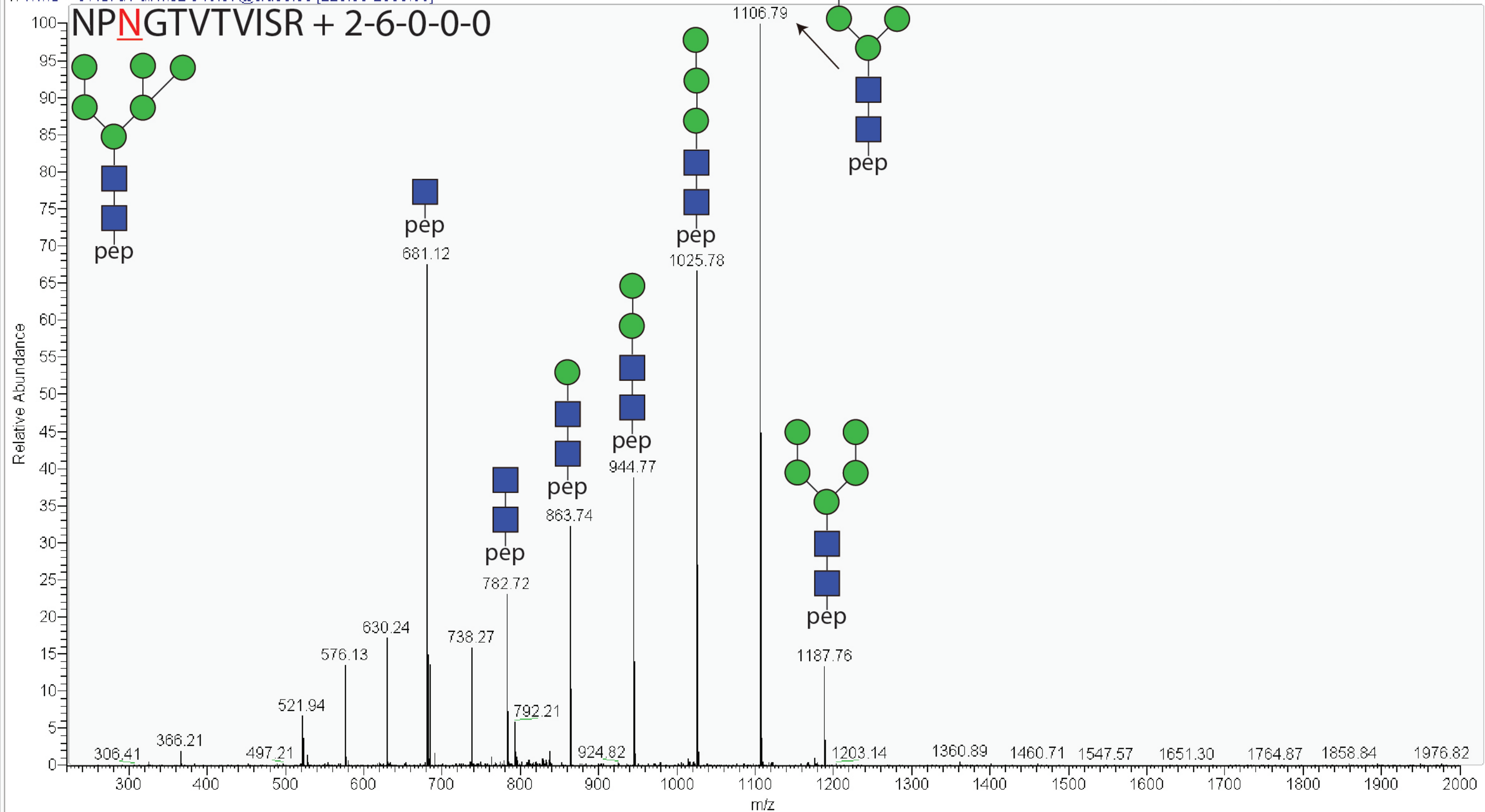
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131\_HILIC\_091614\_01 #360 RT: 15.30 AV: 1 NL: 2.41E5  
T: ITMS + c NSI d Full ms2 846.37@cid35.00 [220.00-2000.00]

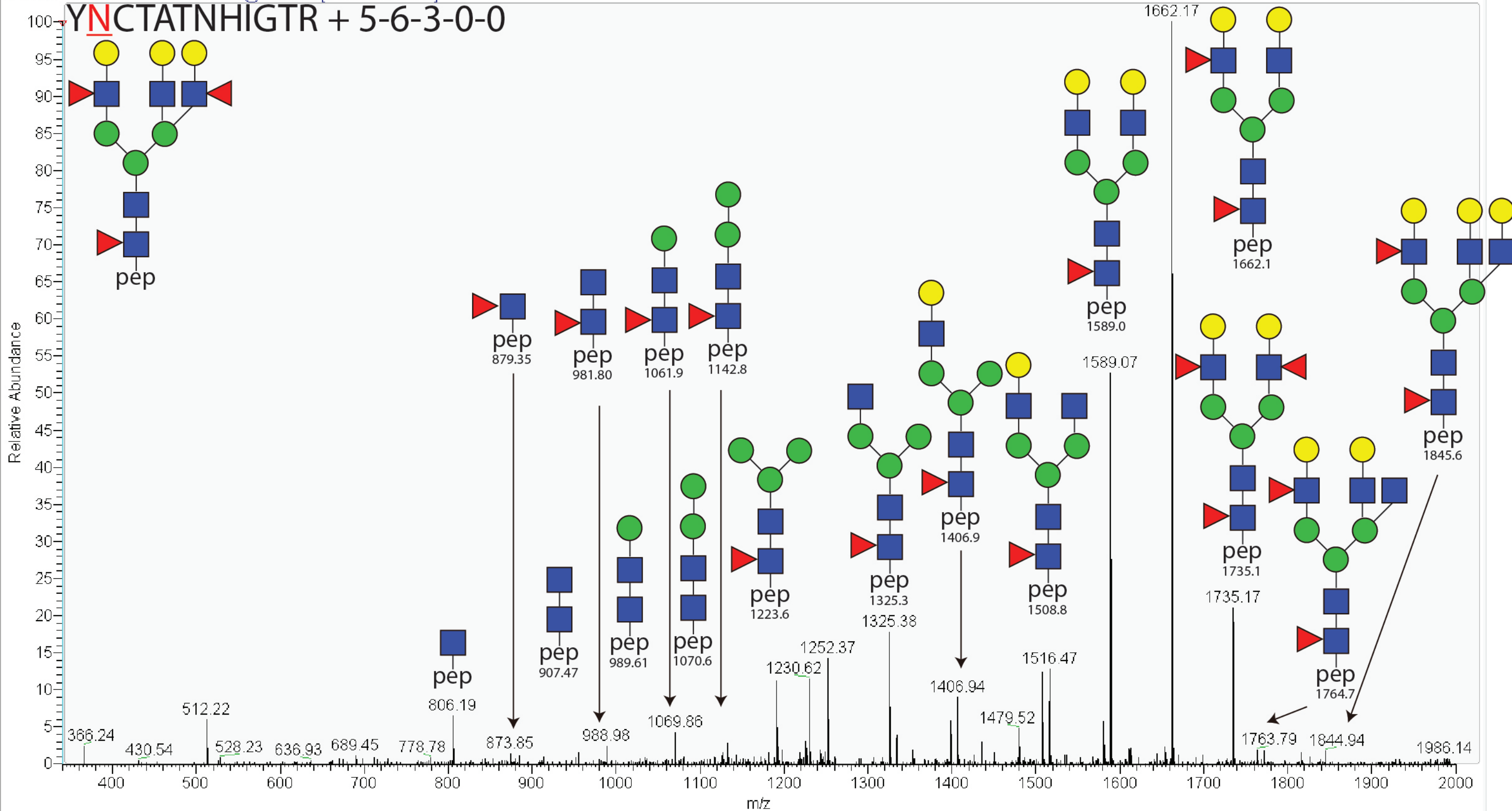
Parent  $m/z$  846.3726



131\_HILIC\_091614\_01#516 RT: 16.24 AV: 1 NL: 3.63E3  
T: ITMS + c NSI d Full ms2 1278.86@cid35.00 [340.00-2000.00]

Parent  $m/z$  1278.857

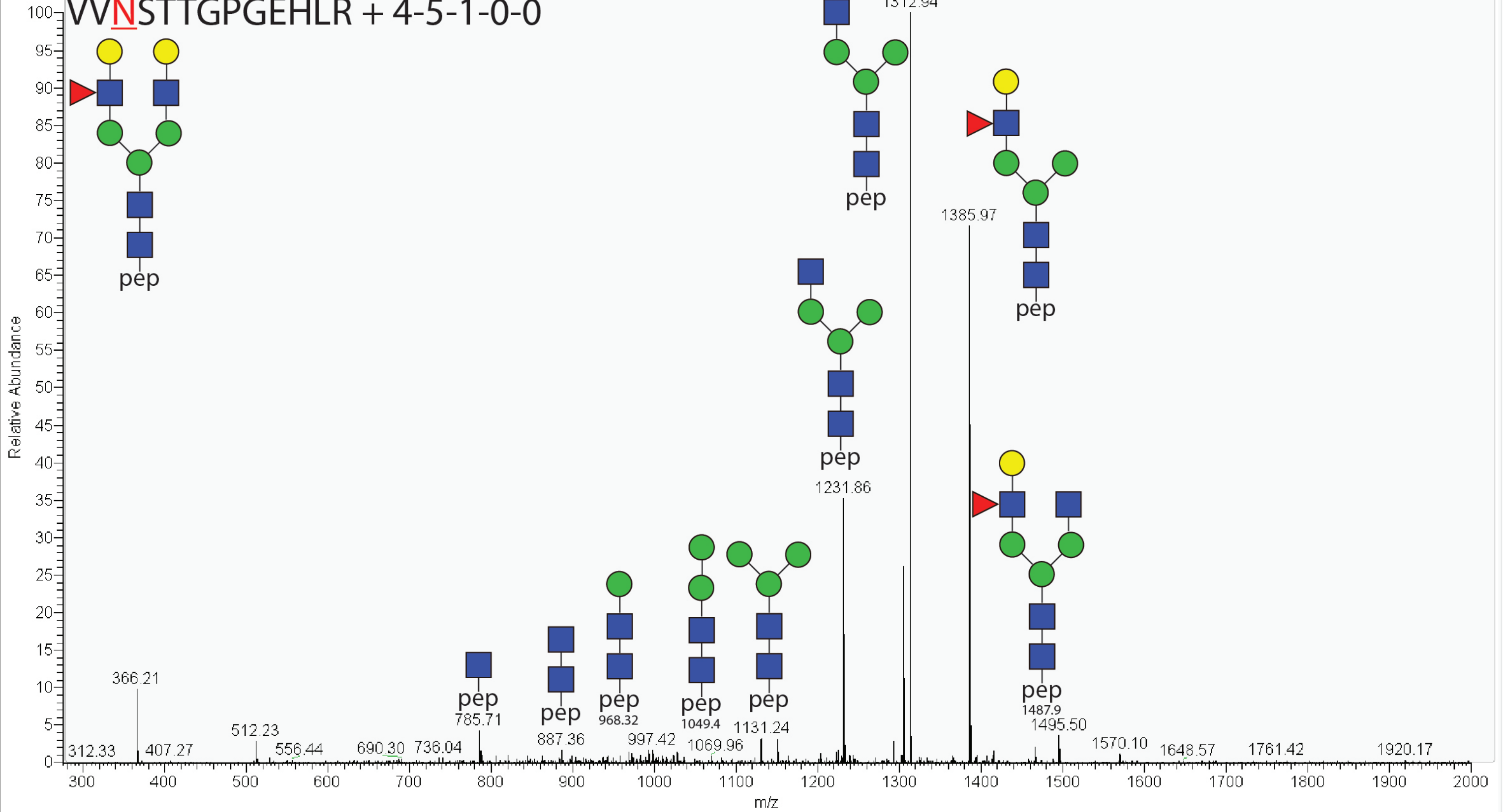
**Y**NCTATNHIGTR + 5-6-3-0-0



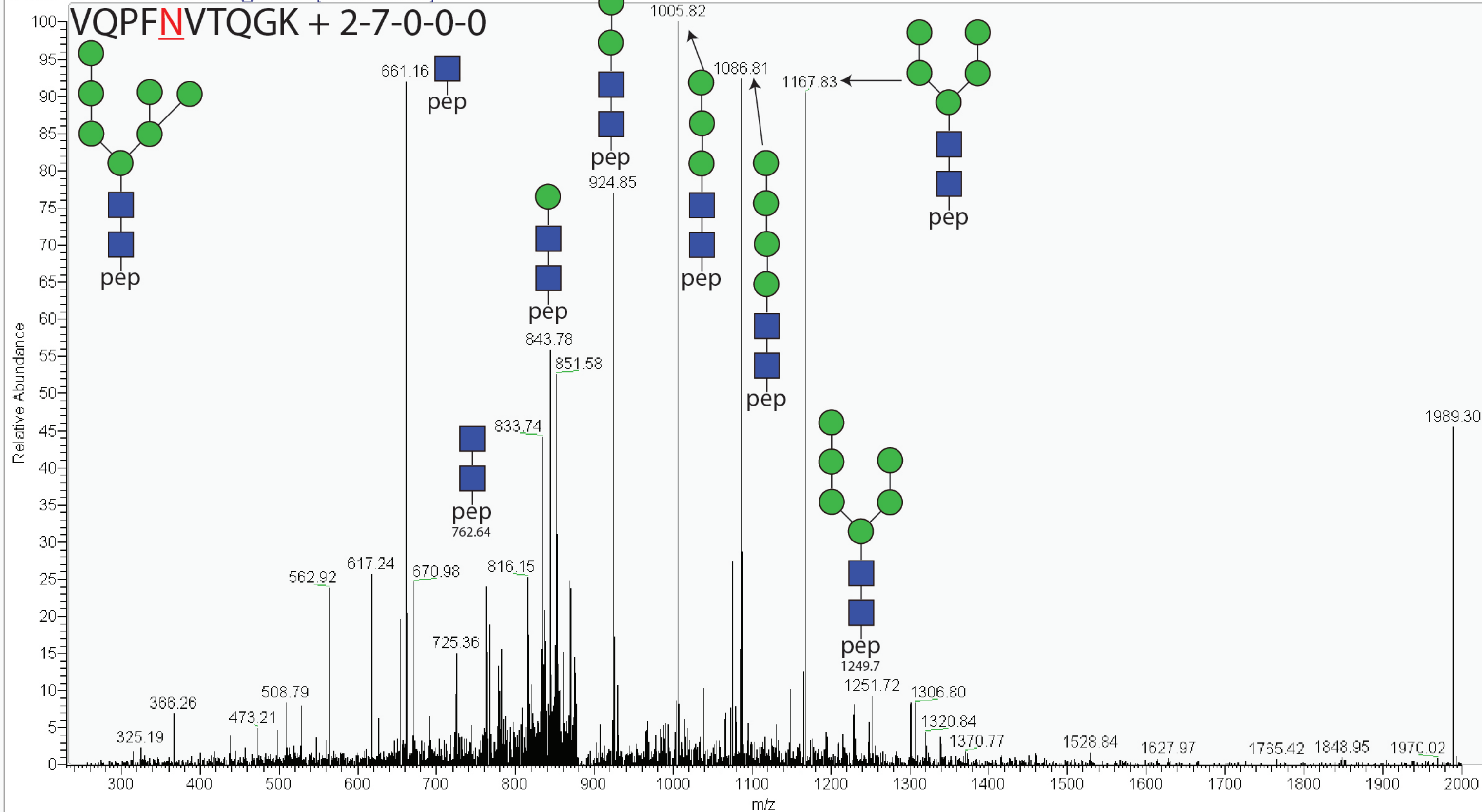
131\_HILIC\_091614\_01 #624 RT: 16.90 AV: 1 NL: 2.32E4  
T: ITMS + c NSI d Full ms2 1046.13@cid35.00 [275.00-2000.00]

Parent  $m/z$  1046.126

VVNSTTGPGEHLR + 4-5-1-0-0

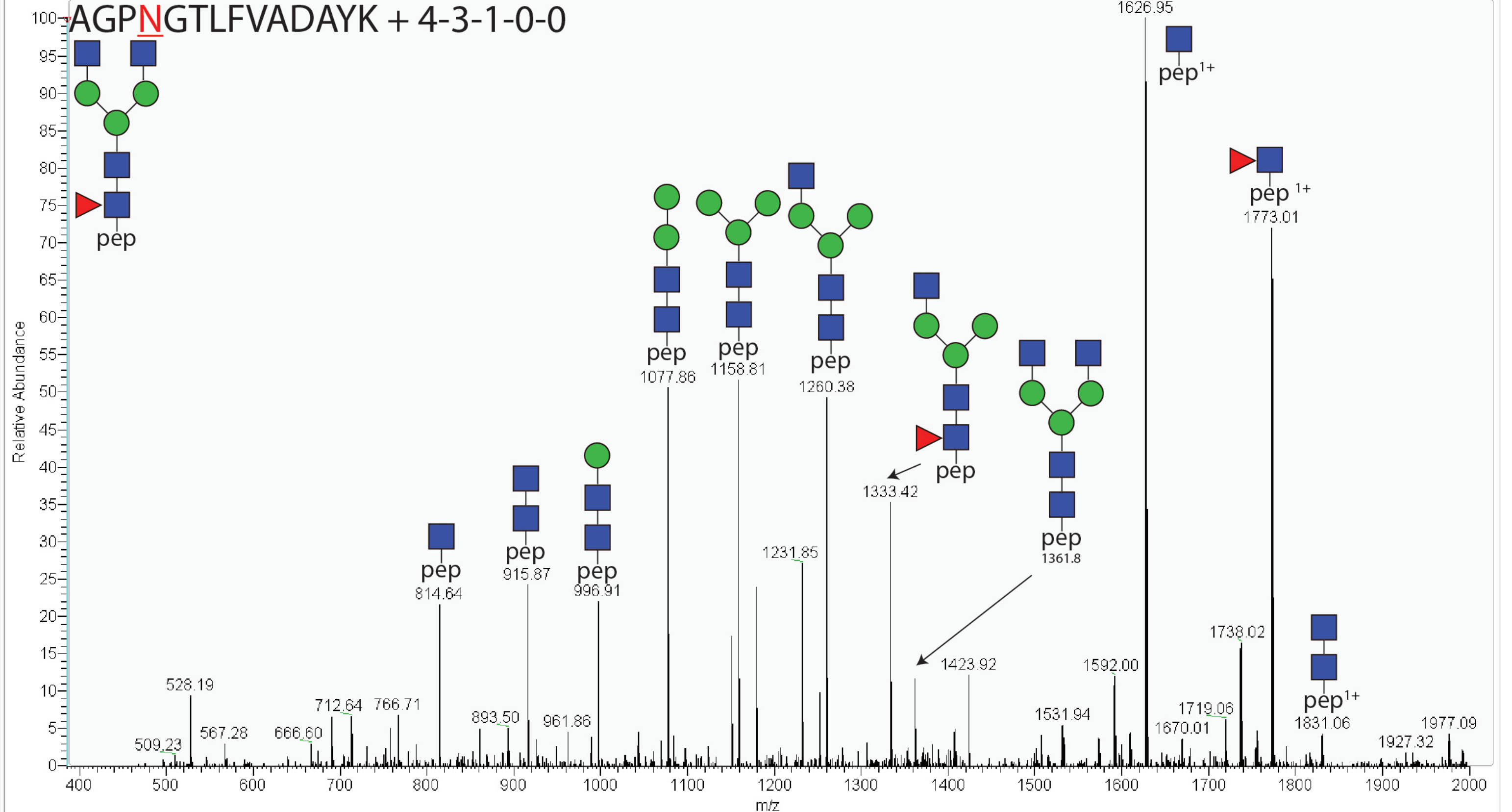


VQPFNVTQGK + 2-7-0-0-0



131\_HILIC\_091614\_01#5279 RT: 47.11 AV: 1 NL: 4.45E3  
T: ITMS + c NSI d Full ms2 1435.14@cid35.00 [385.00-2000.00]

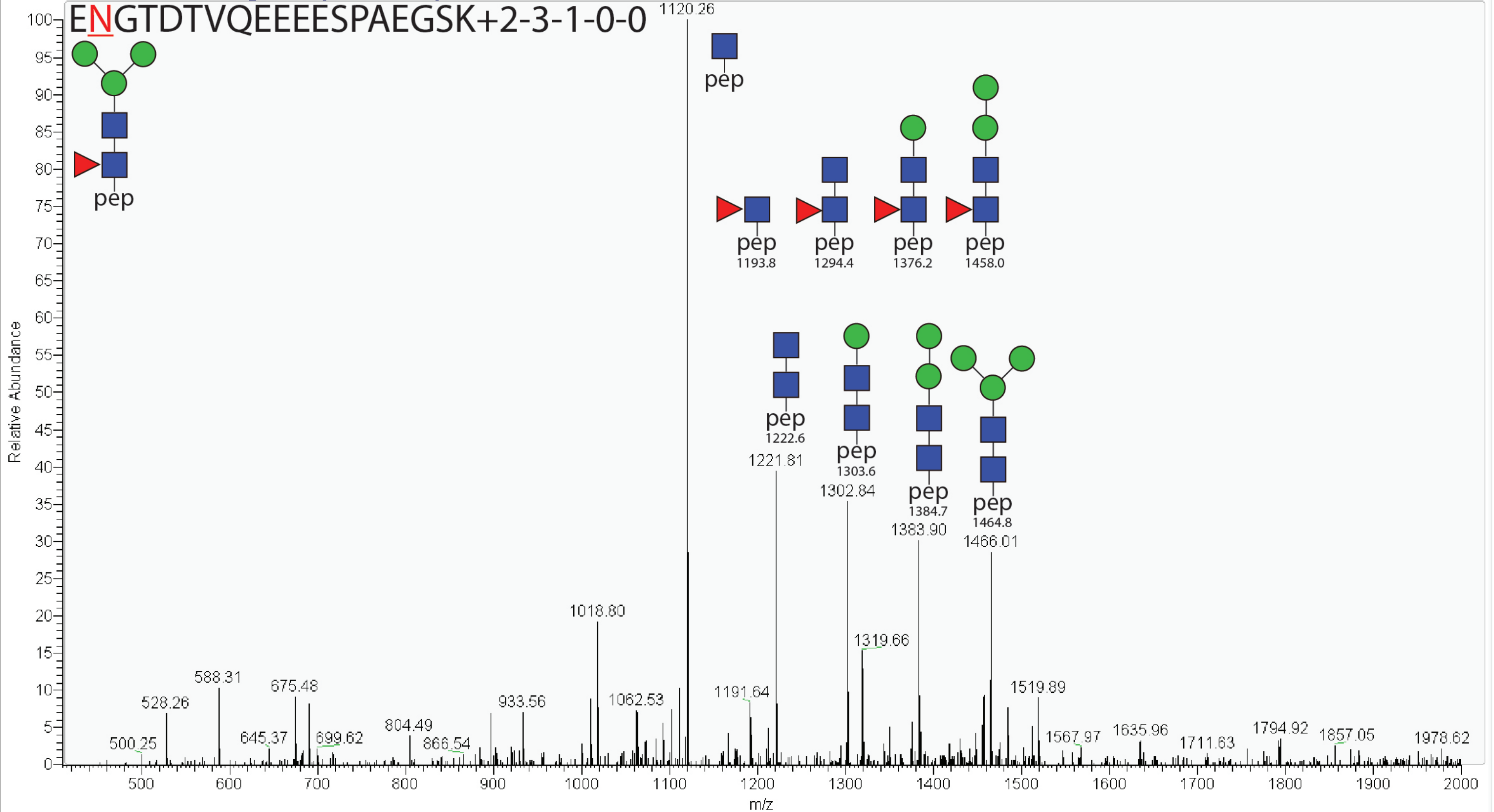
Parent  $m/z$  1435.139



361\_HILIC\_091614\_02\_1#1827 RT: 23.91 AV: 1 NL: 6.27E3  
T: ITMS + c NSI d Full ms2 1538.12@cid35.00 [410.00-2000.00]

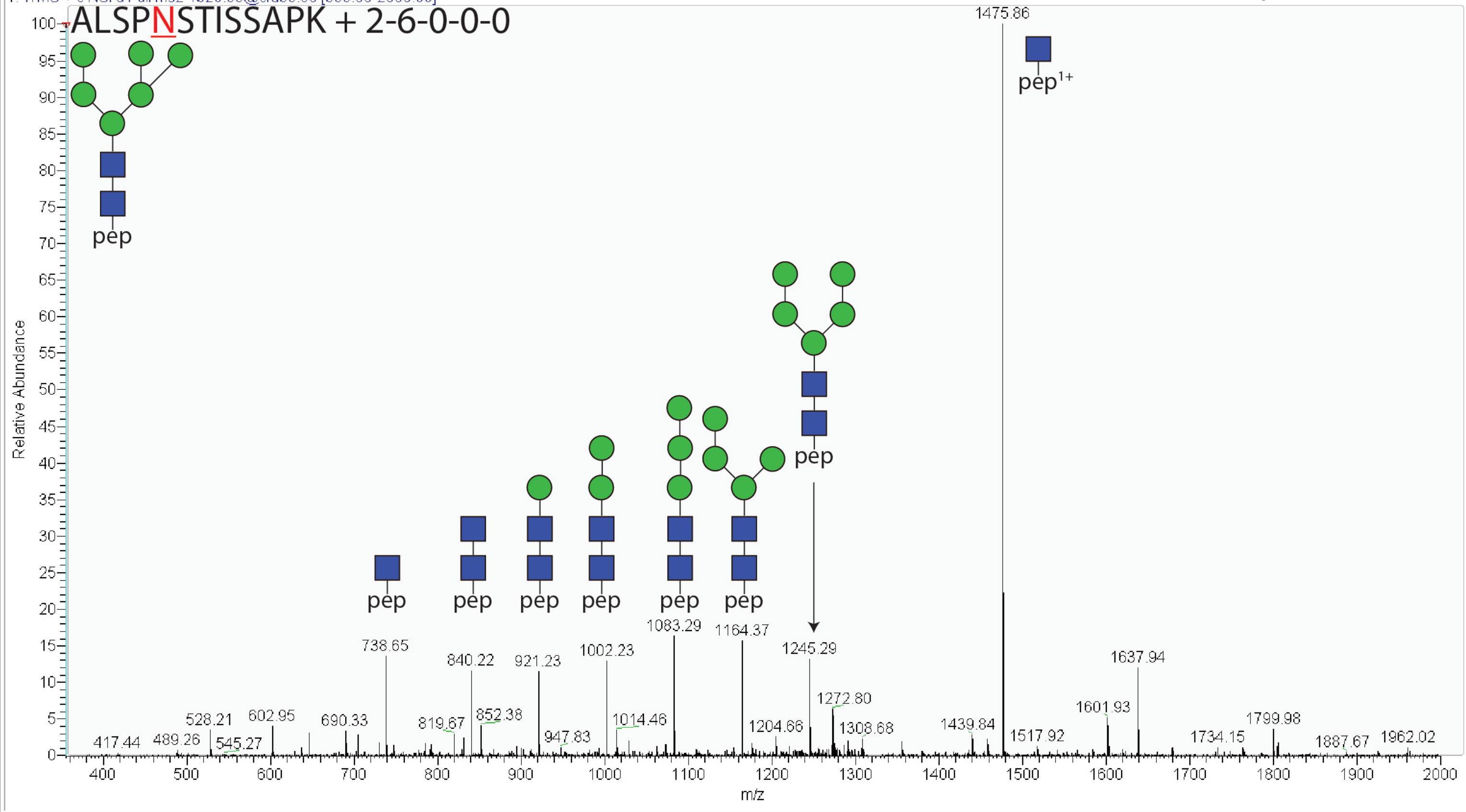
Parent  $m/z$  1538.124

**ENG**TDTVQEEEESPAEGSK+2-3-1-0-0



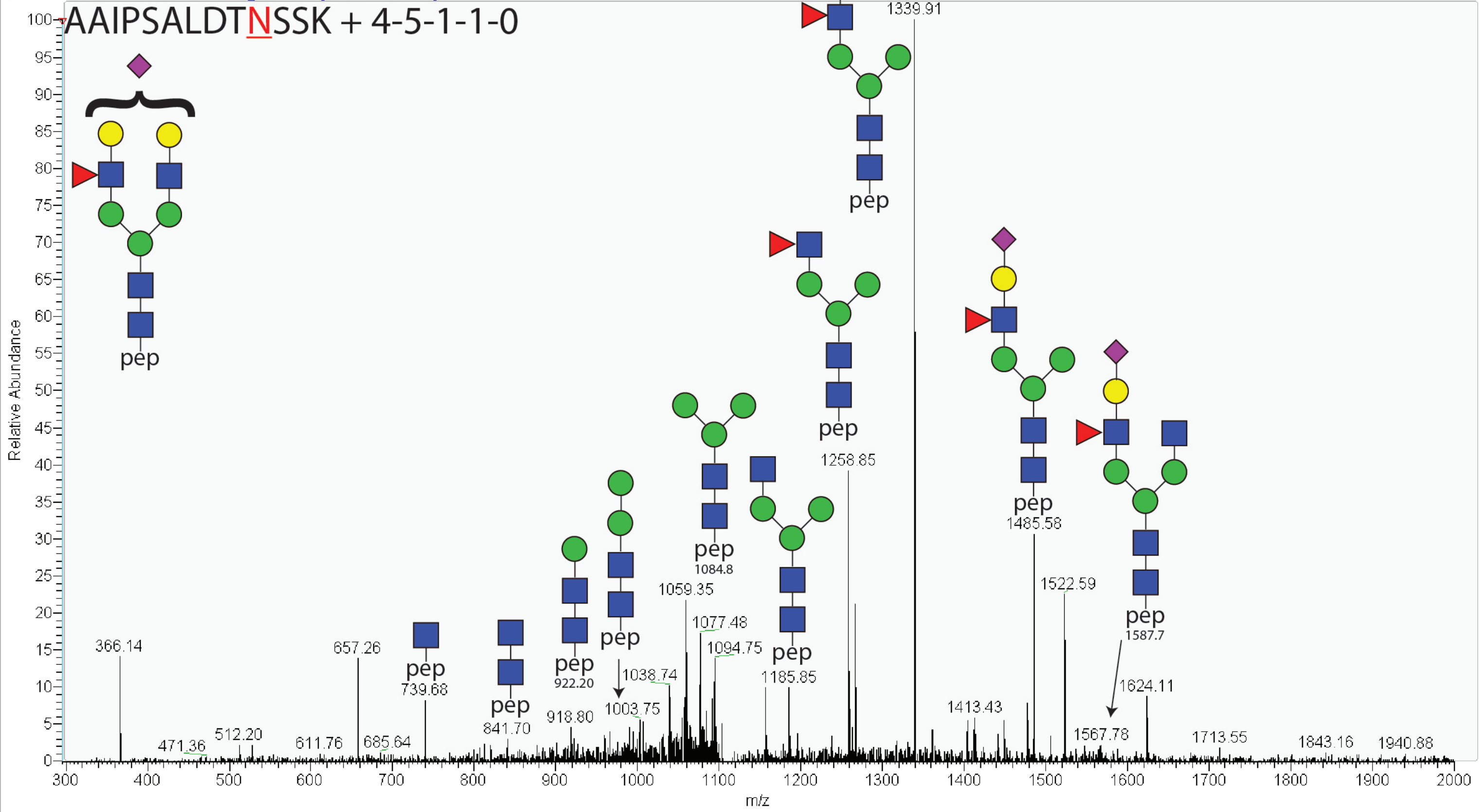
361\_HILIC\_091614\_02\_1 #2108 RT: 25.59 AV: 1 NL: 1.16E4  
T: ITMS + c NSI d Full ms2 1326.58@cid35.00 [355.00-2000.00]

Parent  $m/z$  1326.579

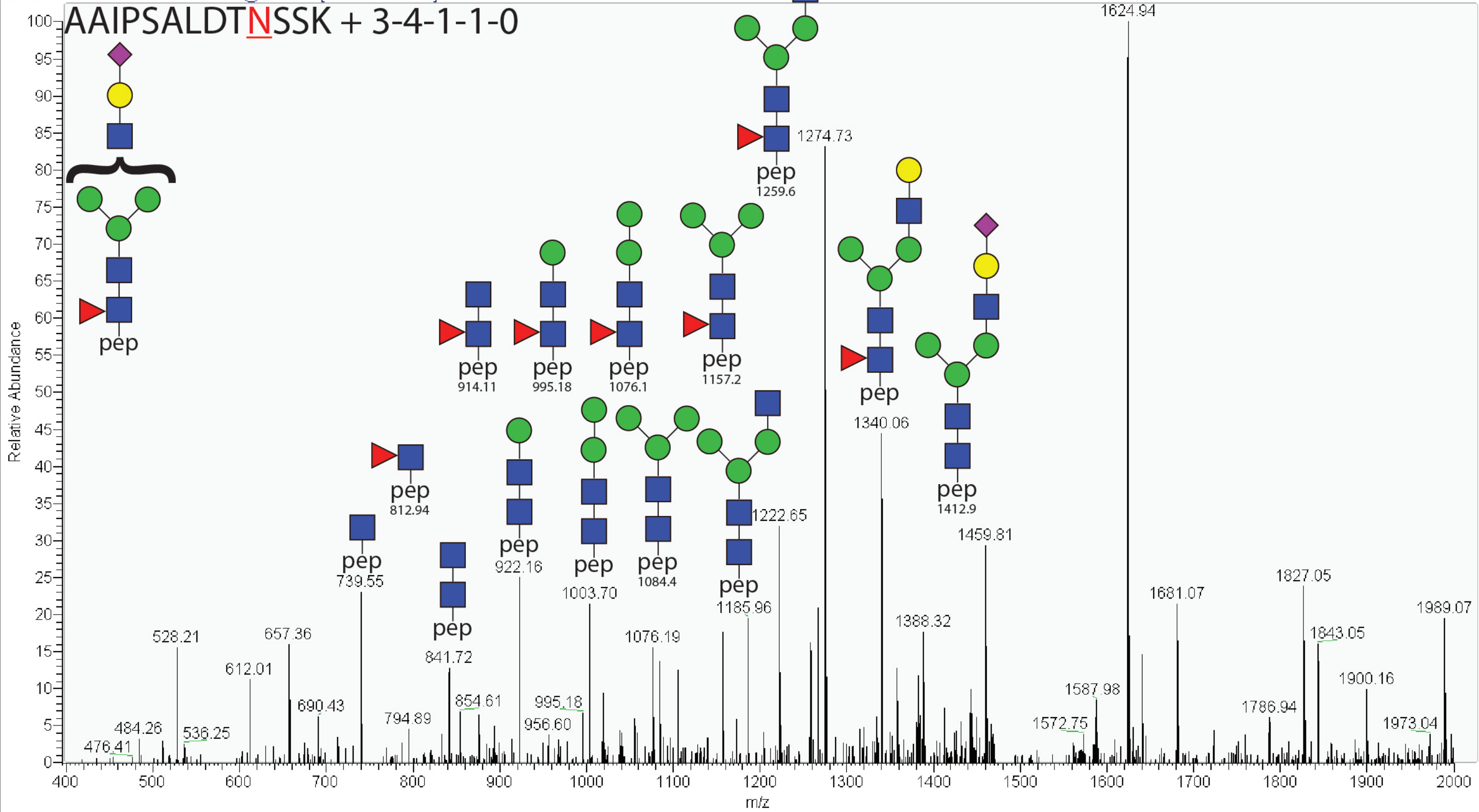




AAIPSAALDTNSSK + 4-5-1-1-0



# AAIPSALDTNSSK + 3-4-1-1-0



**G**NETIVNLIHSTR + 3-6-0-1-0

